SERVICE MANUAL
& PARTS LIST (without price)

POCKET TELEVISION

TV-7700P
TV-7700Q
TV-7700R

SEP. 1991

055
TEILE-NI
STV7700
SERVICE
BOX-NR.

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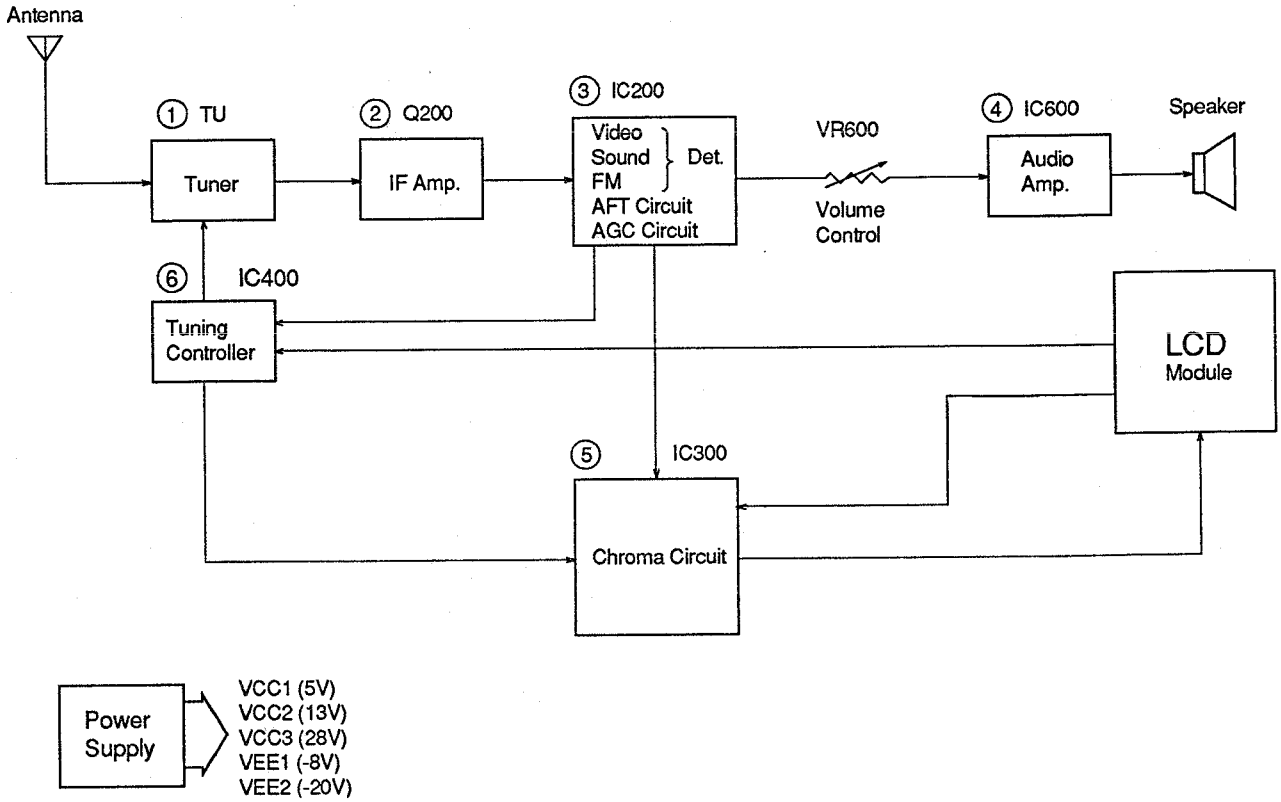
CASIO®

SPECIFICATIONS

Item	Specification
1. Reception channels	VHF / UHF TV-7700P, Q : 2 ~ 12 / 21 ~ 69 TV-7700R : A ~ H2 / 21 ~ 69
2. Power voltage	DC 9.0 V
3. Power consumption	Approx. 4.5 W
4. Current consumption	Approx. 500 mA
5. Battery life (with alkaline batteries)	Approx. 3.0 hours
6. Power supply	Batteries : 6AA size batteries Car adaptor : CA-K90 AC adaptor : AD-K90
7. Connection terminals	Earphone jack : 3.5ø mini External power jack : 9.0V DC IN External antenna jack : 3.5ø mini Audio / Video jack : 3.5ø
8. Screen size	3.0 inches
9. No. of Picture element	89, 505 dots
10. Dimensions	105 mm (H) x 118 mm (W) x 63 mm (D) 4-1/5 (H) x 4-2/3 (W) x 2-1/2 (D)
11. Weight	360 g excepting batteries Approx. 12.7 oz excepting batteries
12. Standard accessories	Test batteries (LR6x6) : TV-7700P, Q ADK-90 : TV-7700R
13. Options	AC adaptor : AD-K90 Car adaptor : CA-K90 RF connector : CF-13 Antenna matching device : AS-35S
14. Body color	Black

BLOCK DIAGRAM



① — Color Tuner TU TEPJ5-02

Selects a desired radio wave, and changes it to the video IF signal.

② — Video IF Amp. Q200 2SC2757

Amplifies the video IF signal output from the tuner TU by 10 times (20dB).

③ — Video, Sound, FM Det., AGC IC200 M51348FP

Eliminates the carrier wave in the video IF signal, and picks up the video signal and the sound IF signal.
Also the sound signal is picked up from the sound IF signal by FM detection.

④ — Audio Amp. IC600 NJM386M

Sound amplification

⑤ — Chroma Circuit IC300 IR3P90B

Generates the tricolor of red, green and blue from the video signal.

⑥ — Auto-tuning Control : IC400 AN5707NS

Converts the color signal into digital signal.
Also generates the clock pulse for the display, and controls the display.

CIRCUIT OPERATIONS

Tuning Controller (IC400 : AN5705)

Pin No.	Signal Name	In/Out	Function
1	GND	—	GND terminal.
2	VBAR	OUT	VHF channel indicator data output terminal. (Green)
3	UBAR	OUT	UHF channel indicator data output terminal. (Red)
4	SDFIL	—	Video signal detection terminal. Horizontal synchronizing pules is charged by capacitor C401 during searching and it detects whether there is a video signal or not.
5	MM	—	Capacitor connecting termrinal. It connects to the mono multiplex to shape the blanking signal.
6	HD	IN	Blanking signal input terminal.
7	H-SYNC	IN	Horizontal synchronizing pulse input terminal.
8	AFT	IN	AFT voltage input terminal. Basic voltage for the tuning.
9	SUD	IN	Tuning direction control signal input. * H* ..... UP * L * ..... Down
10	L/H	IN	VHF Low/High band selecting terminal.
11	VCC	IN	Power supply input terminal.
12	SS	IN	Tuning speed control terminal. It is set according to the value of resistor R410.
13	CHA	—	Capacitor connection terminal.
14	MANU	—	Not used.
15	STOP	—	Capacitor connection terminal.
16	DEF	OUT	Sound mute at tuning output and controls prohibitation of channel indication at audio video signal input.
17	CHCAL	IN	Channel call terminal. Low active.
18	BRG	IN	Not used.
19	UP	IN	Position of UHF channel indicator fine tuning terminal.
20	VLP	IN	Position of VHF L channel indicator fine tuning terminal.
21	VHP	IN	Position of VHF H channel indicator fine tuning terminal.
22	CON	—	Capacitor connection terminal. It generates saw-tooth waveform to determine position of channel indicator.
23	UA	—	Position of UHF channel indicator adjusting terminal.
24	VLA	—	Position of VHF L channel indicator adjusting terminal.
25	VHA	–	Position of VHF H channel indicator adjusting terminal.
26	BT	OUT	Tuning voltage output terminal.
27	U/V	IN	UHF/VHF receiving band selection terminal. * H* ..... VHF * L * ..... UHF
28	BS	OUT	VHF-L/VHF-H receiving band selection voltage output terminal.

Tuning Operation

AN5707 Makes the tuning operation by receiving signals H-SYNC (Horizontal synchronizing pulse) and AFC (ATF) voltage.

Signal H-SYNC (Horizontal synchronizing pulse) from pin no. 7 is charged by capacitor of C401, and it detects whether there is a video signal or not. If detects a video signal, IC400 is searching the tuning position by selecting the level of AFT voltage.

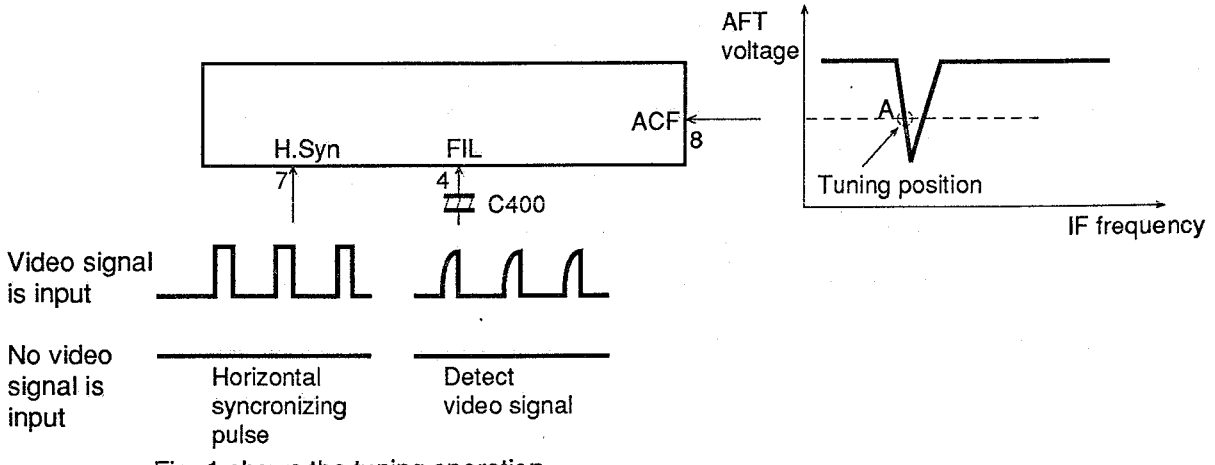


Fig. 1 shows the tuning operation

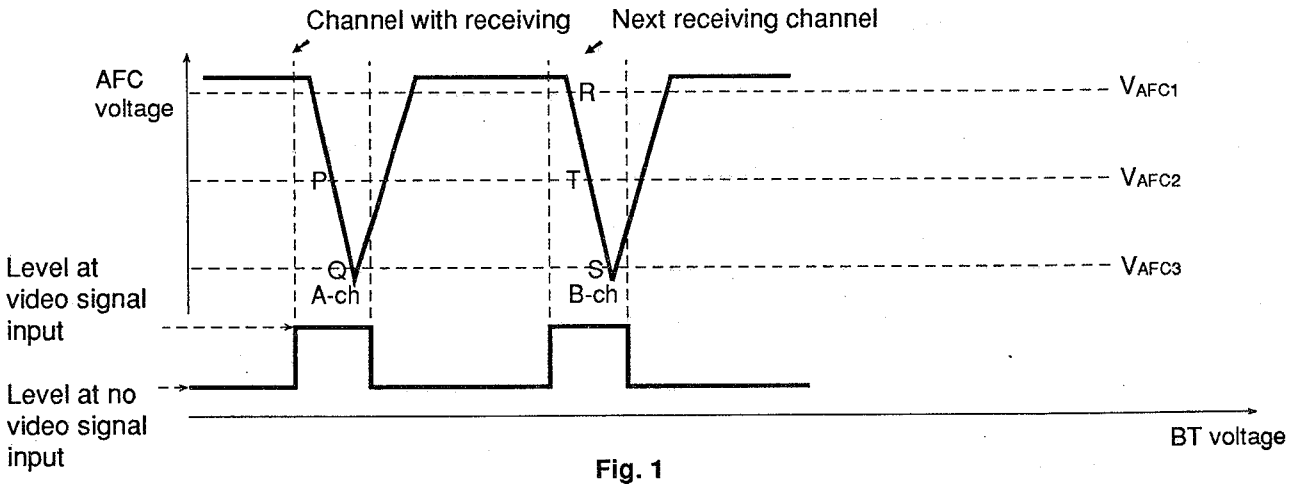


Fig. 1

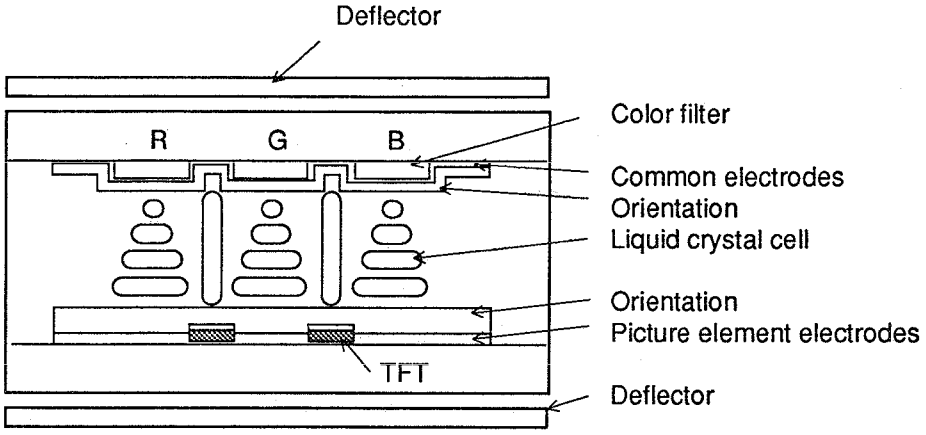
Tuning Point	Tuning Channel	Operation
P	A-ch tuning	When UP button is pressed, Video signal is charged by capacitor of C410, then the tuning indicator is moved to the up direction of BT voltage.
Q	A-ch detuning	When the AFC voltage becomes under V_{AFC3}, the tunning indicator gets out of tuned condition.
R	B-ch tuning preparation (1)	When the AFC voltage becomes more than V_{AFC1} and detects a video signal, the current of C410 is reduced to one-third and the tuning speed becomes slow to prepare the selecting channel.
S	B-ch tuning preparation (2)	When the AFC voltage becomes under V_{AFC3} detects the video signal again.
T	B-ch tuning	AN5707 terminates the tuning operation when the AFT becomes V_{AFC2}. Tuning operation continues to up direction if the video signal cannot be detected.

TFT LCD control IC (IC300 : IR3P96B)

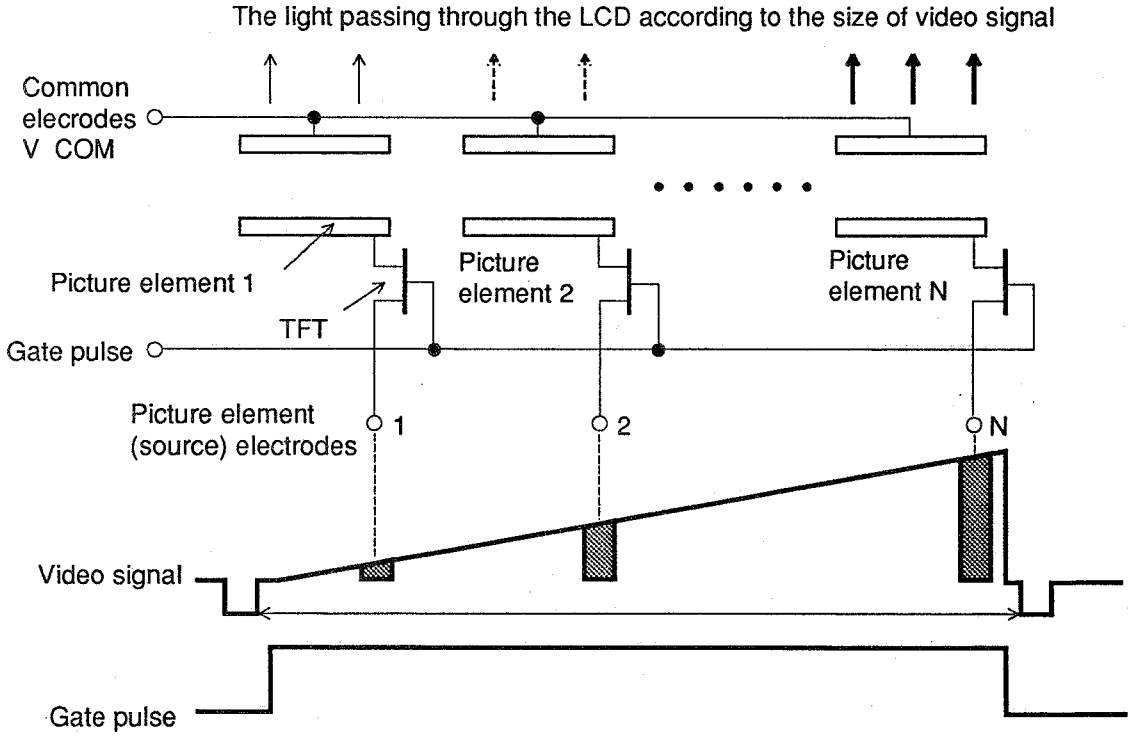
Pin No.	Signal Name	In/Out	Function
1	CONTRAST	IN	Contrast adjusting terminal.
2	EXT B	IN	Channel indicator data input terminal. (Green)
3	EXT G	IN	Channel indicator data input terminal. (Red)
4	EXT R	IN	Channel indicator data input terminal. (Blue)
5	IDENT FILTER	IN	Ident detection filter connection terminal.
6	VEE	IN	Power supply input terminal (VEE).
8	ACC	IN	ACC detection filter connection terminal.
9	VIDEO IN	IN	Video signal input terminal.
10	COLOR	IN	Color adjusting terminal.
11	F ADJ	IN	Frequency characteristic of internal filter control terminal. It is set according to the value of resistor R311.
12	AGC OUT	OUT	Voltage output from AGC detector.
13	AGC FILTER	—	AGC detection filter connection terminal.
14	TRAP OUT	—	4.43MHz trap connection terminal.
15	CLAMP	—	Capacitor connection terminal of pedestal clamp circuit for luminance signal.
16	APL	—	Filter connection terminal of detecting APL (Average Picture Level) from luminance signal.
17	H FILTER OUT	OUT	Video signal output terminal for the synchronizing separator.
18	SYNC SEP	IN	Video signal input terminal into the synchronizing separator.
19	BURST OUT	—	Burst cleaning coil connection terminal.
20	CHROMA OUT	OUT	Color adjusted chrominance signal output terminal.
21	SYNC OUT	OUT	Syncronizing signal output terminal from syncronizing separator.
22	SYNC IN	IN	Horizontal synchronizing pulse input terminal from LCD module. It generates Burst Gate Pulse (BGP).
23	TIME CONSTANT	—	C and R connection terminal for BGP.
24 25	B-Y R-Y	IN IN	Crominance signal input terminal into the Color difference demondulator.
26	HD IN	IN	PAL SW change signal.
27	KILLER FILTER	—	Killer detection filter connection terminal.
28	PICTURE	IN	Frequency characteristic of video signal adjustment terminal.
29	VCO	—	3.58MHz oscillation signal input.
30	APC FILTER	—	APC detection filter connection terminal.
31	COM AMPLITUDE	IN	LCD common electrode adjustment terminal. When replaced LCD, need this adjustment. → V-COM adjustment
32	GND	—	GND terminal.
33	VEE	—	Power supply input terminal (VEE).
34	COM OUT	OUT	LCD common electrode driving pules output terminal.
35	R OUT	OUT	Inverted Red color signal.
36	VCC2	IN	Power supply input terminal (VCC2).
37	G OUT	OUT	Inverted Green color signal.
38	OUT DC DET	—	Smoothing condenser connection terminal for (VCC+VEE)/2 of DC Bias voltage.
39	B OUT	OUT	Inverted Blue color signal.
40	RGB AMPLITUDE	IN	RGB output signal (negative/positive) control terminal. It is set according to the polarity of FRP.
41	FRR1	IN	FRP input terminal.
42	FRP2	IN	FRP input terminal.
43	SUB BRIGHT B	IN	Brightness of B (Blue) signal fine tuning terminal.
44	SUB BRIGHT R	IN	Brightness of R (Red) signal fine tuning temrinal.
45	BRIGHT	IN	Brightness adjustment terminal.
46 47	GAMMA2 GAMMA1	IN IN	Point of voltage characteristic of γ correction control terminal.
48	PEEK LIMITER	IN	RGB peek limitter adjustment terminal.
49	SUB CONTRAST B	IN	Contrast of B (Blue) signal adjustment terminal.
50	SUB CONTRAST R	IN	Contrast of R (Red) signal adjustment temrinal.

Pin No.	Signal Name	IN/OUT	Function
51	SW	IN	Video signal (pin 10) / External RGB (pin 3) switching terminal. *H* .....Video signal input. *L* .....External signal input.
52	NC	—	Not used.

Construction of TFT-LCD MODULE



TFT-LCD driving Method



1 Horizontal scanning period

① V COM voltage is applied to common electrodes.

② TFT is controlled by gate pulse

③ Video signal is applied to the picture element electrodes and each picture element is received electric charge.

④ Amount of the light passing throught the LCD is determined according to this electric charge. It determines potential difference between VCOM and picture element electrodes.

ADJUSTMENT

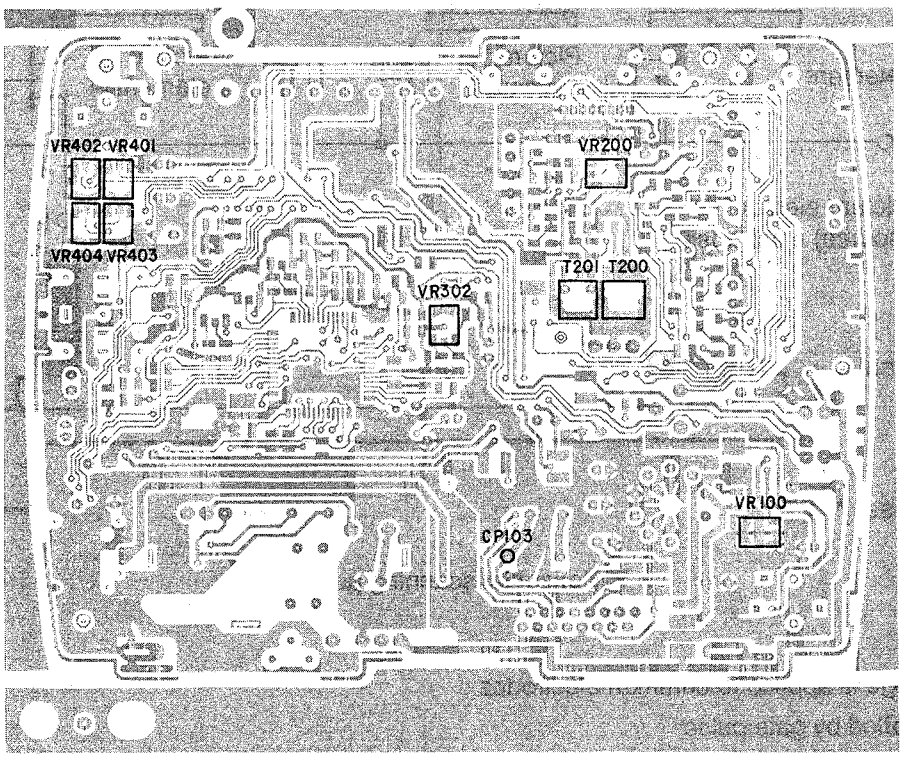
Linear PCB

1) Items to be adjusted:

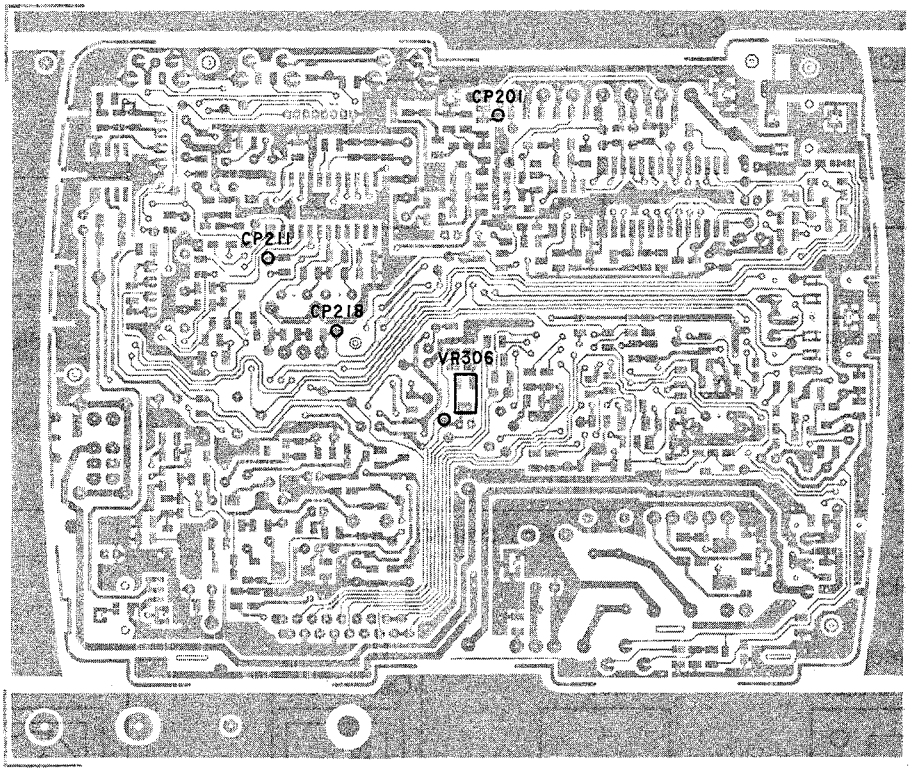
Item	Measuring Instrument
VCC1 voltage setting	Voltmeter
Video detection coil adjustment	TV signal generator, Pattern generator, Oscilloscope, Low-pass filter
AFT coil adjustment	Sweep generator, Oscilloscope, Voltmeter
AGC adjustment	TV signal generator, Pattern generator, IF levelemeter
V-COM adjustment	TV signal generator, Pattern generator, Oscilloscope, Senser (Photo transistor), Senser amplifier
Tuning indicator position adjustment	TV signal generator, Pattern generator

2) Adjustment and Test Point Locations

(TOP VIEW)

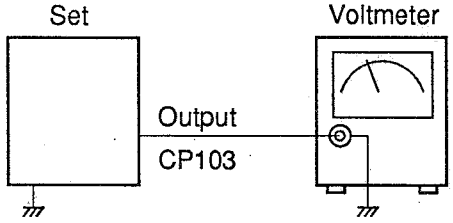


(BOTTOM VIEW)



3) Equipment connection / Procedure

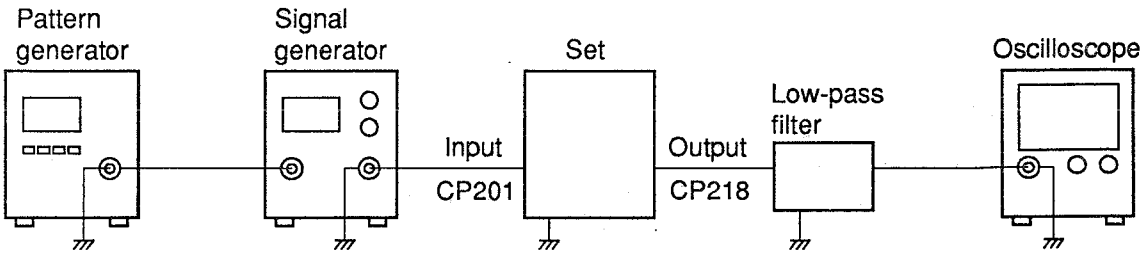
Vcc1 voltage setting



Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Adjust for
———	——	———	VR100	Voltmeter	CP103	Adjust for 5.02 ± 0.01V reading on voltmeter.

Video detection coil adjustment

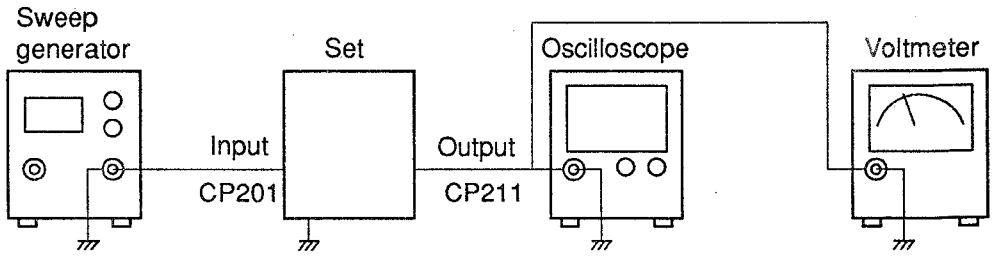
* Open soldering pad IF.



Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Adjust for
Pattern generator Signal generator	CP201	Color bar 38.9MHz 43 ± 5dBμ	T200	Low-pass filter Oscilloscope	CP218	Adjust for DC level at minimum.

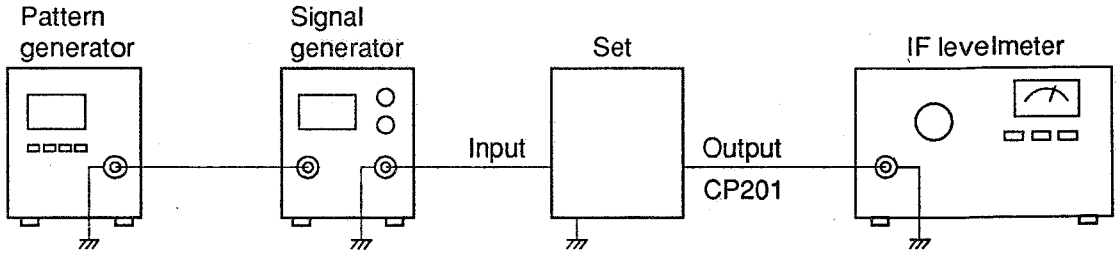
AFT coil adjustment

* Open soldering pad IF.



Sweep generator	CP201	38.9 ± 5MHz (Sweep) Marker:38.9 70dBμ	T201	Voltmeter Oscilloscope	CP211	Adjust for 3.0 ± 0.2V reading on voltmeter. Confirm that the marker is at the middle of S-curve on oscilloscope.

AGC adjustment

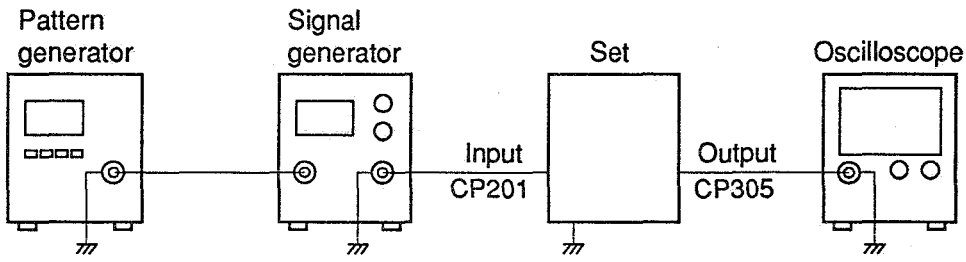


Pattern generator Signal generator		Color bar 70 ± 2dBμ	VR200	IF levelmeter	CP201	Adjust for 86 ± 1dBμ reading on the IF levelmeter

Vcom adjsutment

1) Adjust by VR302 so that pin 30 of IC300 become 6.0 ± 0.1V.
   Adjust by VR306 so that High level of pin 30 of IC300 become -1.4 ± 0.1V.

* Open soldering pad IF.



Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Adjust for
Pattern generator Signal generator	CP201	Color bar 38.9MHz 70dBμ	VR302 VR306	Oscilloscope	CP305	V-COM 6.0 ± 0.1V ← -1.4 ± 0.1V

2) By tuning the VR306, adjust for output amplitude at minimum.

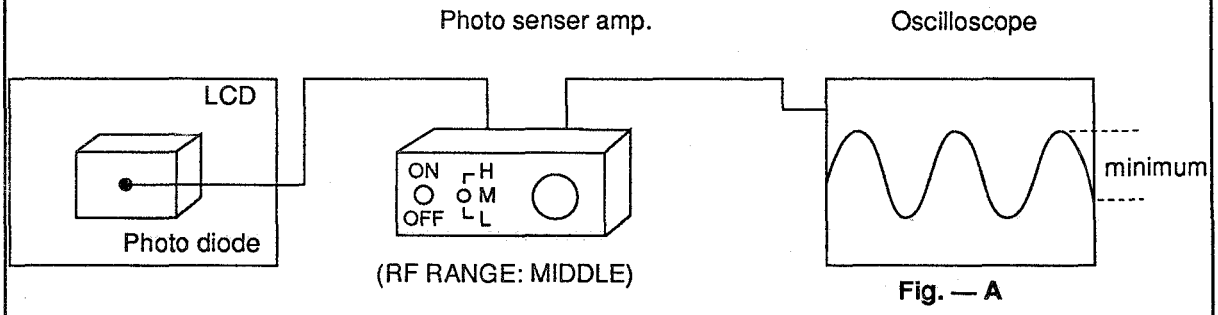
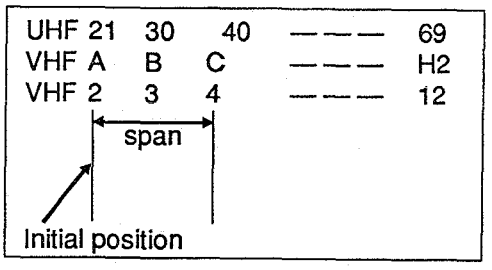


Fig. — A

———	——	———	VR306	Photo-electric converter. Oscilloscope	——	

Tuning indicator position adjustment

Make this adjustment when the tuning indicator does not match with the channel display.

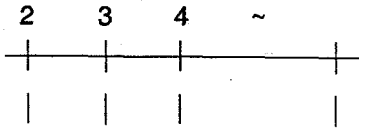


Adjsutment volume

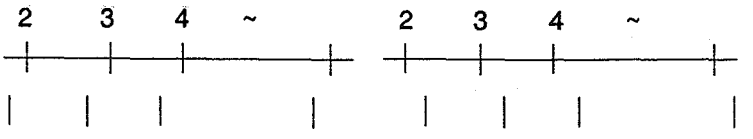
* VR401 UHF initial position adjustment.
* VR402 VHS initial position adjustment.
* VR403 UHF span adjustment.
* VR404 VHS span adjustment.

There are two cases of gap.

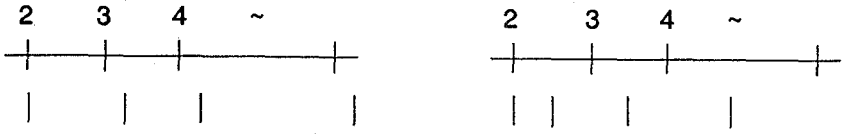
a) Good



b) Incorrect VR401 and VR403 adjustment



C) Incorrect VR403 and VR404

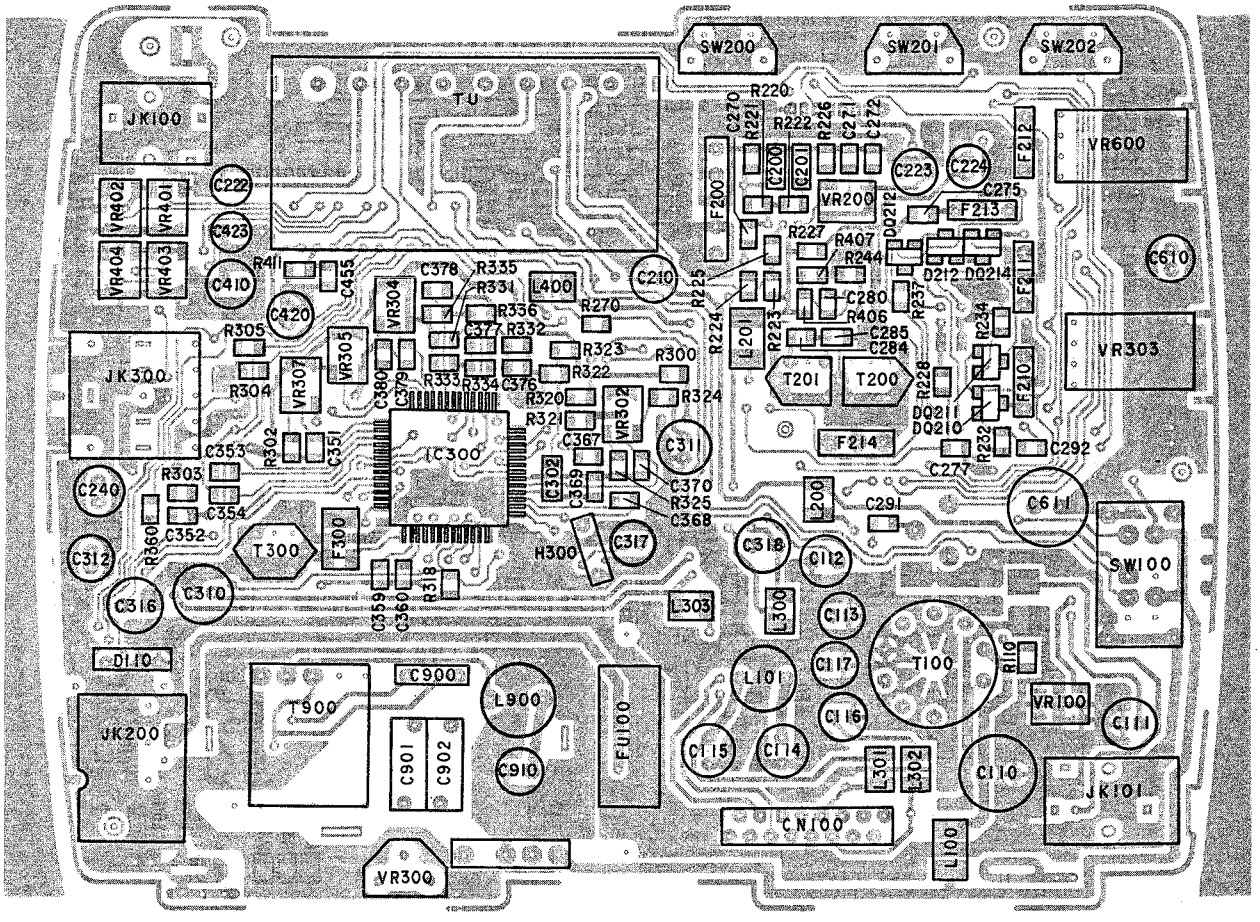


ADJUSTMENT (When appropriate measuring instruments are not available.)

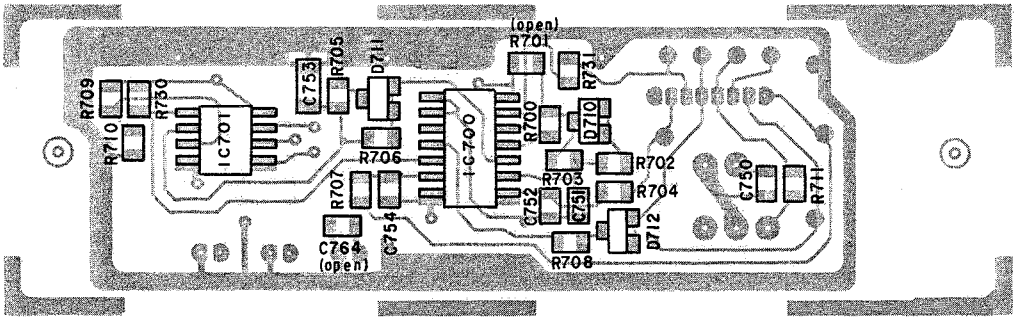
Adjustment point	Measuring Instrument	PCB
VCC1 voltage	*o Make this adjustment whenever repairing. O Adjust VR100 so that VCC1 is 5.0 ± 0.02V	Linear
Video detection coil	*o Make this adjustment when sensitivity or receiving is poor. O Adjust T200 with watching the screen.	Linear
AFT coil	*o Make this adjustment when the auto-tuning does not stop. O Adjust T201 so that the auto-tuning stops.	Linear
AGC	*o Make this adjustment when no reception is possible at all or the sensitivity is extremely bad. O Adjust VR200 with watching the screen.	Linear
V-COM adjustment	*o Make this adjustment when the display appears at the power off. O Adjust VR302 and VR306.	Linear
Tuning indicator position	*o Make this adjustment when the auto-tuning does not stop correct position. O Adjust VR401, VR402, VR403 and VR404 with watching the screen.	Linear

PCB DIAGRAMS (Top and Buttom Views)

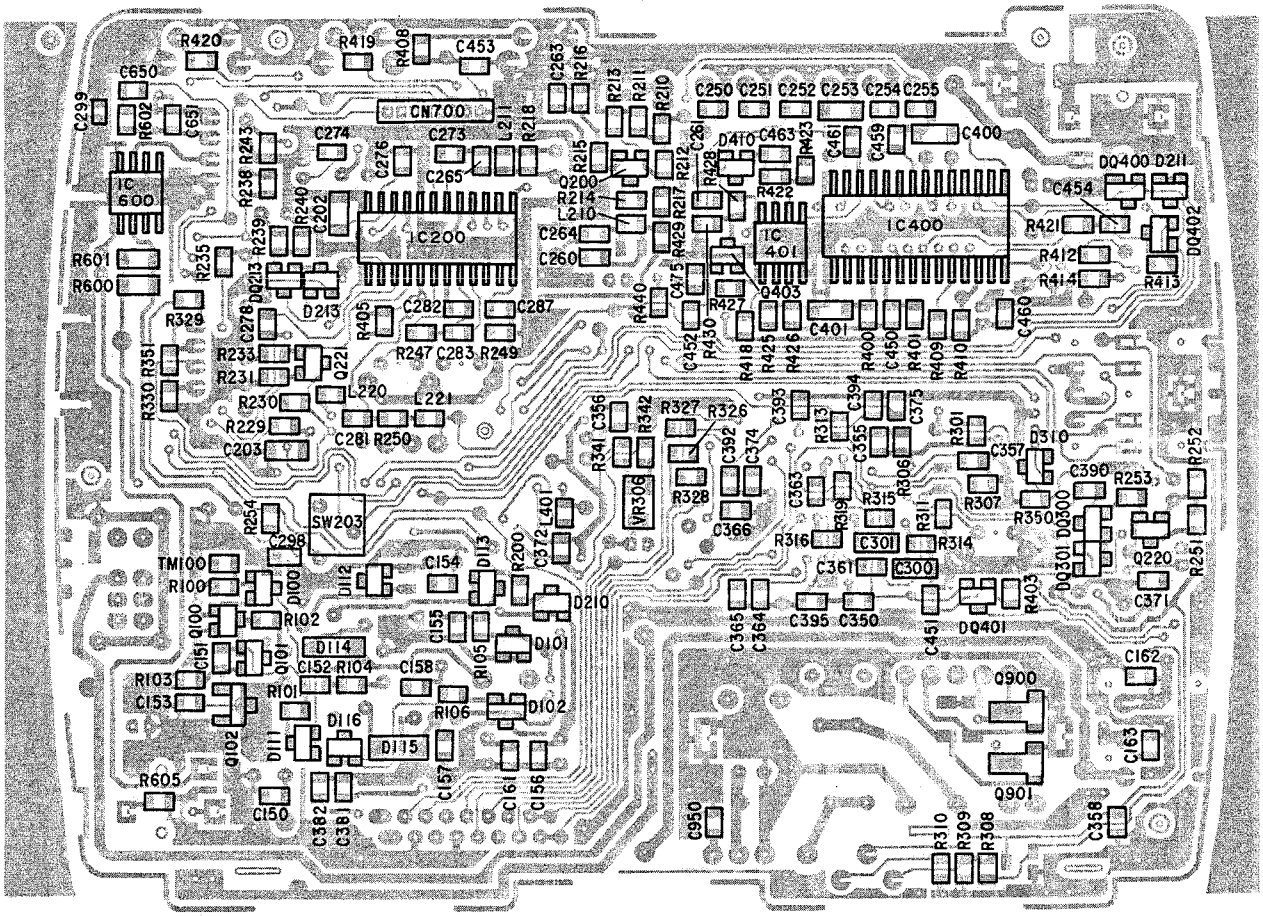
Linear PCB (Top View)



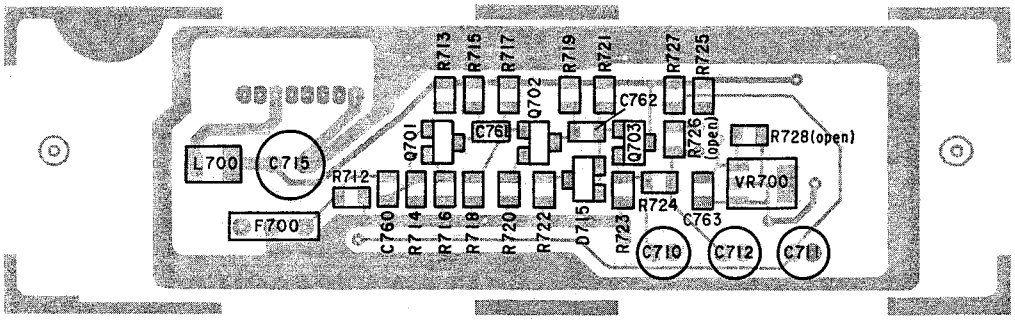
Sub PCB (Top View)



Linear PCB (Buttom View)



Sub PCB (Buttom View)



ELECTRICAL PARTS LIST

Linear PCB No. 1

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
	Capacitors					
C110	2801 8120	Electrolytic	10RE2-470	20		C
C111	2804 9212	Electrolytic	50RC2-1	10		C
C112	2804 9242	Electrolytic	35RC3-10	10		C
C113	2800 9945	Electrolytic	50RC2-4R7MS	20		C
C114 o*	2805 8490	Electrolytic	6.3RSH-220S31	10		C
C115 o*	2805 8490	Electrolytic	6.3RSH-220S31	10		C
C116 o*	2828 5531	Electrolytic	10RC2-47MS	20		C
C117	2800 9945	Electrolytic	50RC2-4R7MS	20		C
C150	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C151	2897 0189	Chip	GR40W5R682K50PT	20		C
C152	2892 0016	Chip	GR40W5R102K50PT	10		C
C153	2892 0075	Chip	GR40W5R472K50PT	10		C
C154	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C155	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C156	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C157	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C158	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C161	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C162	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C163	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C200	2895 0938	Chip tantalum	ECST1VY334R	10		C
C201	2895 0595	Chip tantalum	ECST0YJ225R	10		C
C202	2895 0595	Chip tantalum	ECST0JY225R	10		C
C203	2895 0595	Chip tantalum	ECST0JY225R	10		C
C210	2800 9182	Electrolytic	6.3RC2-47MS	20		C
C222	2804 9111	Electrolytic	6.3RC2-22	20		C
C223	2805 2499	Electrolytic	6.3RC2-100MS	20		C
C224	2800 9182	Electrolytic	6.3RC2-47MS	20		C
C240 o*	2805 9666	Electrolytic	6.3RC3BP22	20		C
C250	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C251	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C252	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C253	2892 0156	Chip	GR42-6Y5V104Z50PT	10		C
C254 o*	2897 1057	Chip	GR40Y5V474Z16PT	20		C
C255	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C260	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C261	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C263	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C264	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C265	2892 0385	Chip	GR40CH040C50PT	20		C
C270	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C271	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C272	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C273	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C274	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C275	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C276	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C277	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C278	2892 0407	Chip	GR40CH270J50PT	10		C
C280	2892 0016	Chip	GR40W5R102K50PT	10		C
C281 o*	2897 0462	Chip	GR40CH910J50PT	20		C
C282	2897 0035	Chip	GR40PH620J50PT	20		C
C283	2892 0474	Chip	GR40CH010C50PT	20		C
C284	2897 0035	Chip	GR40PH620J50PT	20		C
C285 o*	2897 0378	Chip	GR40PH270J50PT	20		C
C287	2892 0059	Chip	GR40Y5V103Z50PT	10		C

Linear PCB No. 2

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
	Capacitors					
C291	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C292	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C298	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C299	2892 0016	Chip	GR40W5R102K50PT	10		C
C300	2895 0126	Chip tanralum	ECST1CY105R	10		C
C301	2895 0126	Chip tanralum	ECST1CY105R	10		C
C302	2895 0133	Chip tanralum	ECST1EY474R	10		C
C310	2804 9587	Electrolytic	6.3RC347	10		C
C311	2804 9587	Electrolytic	6.3RC347	10		C
C312 o*	2801 8820	Electrolytic	6.3RC310	20		C
C316	2804 9404	Electrolytic	10RC347	10		C
C317 o*	2801 9170	Electrolytic	10RC310	20		C
C318	2804 9617	Electrolytic	16RC347	10		C
C350	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C351	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C352	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C353	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C354	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C355	2897 0588	Chip	GR40CH681J50PT	10		C
C356	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C357	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C358	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C359	2892 0237	Chip	GR40W5R222K50PT	20		C
C360	2897 0833	Chip	GR40Y5V153Z50PT	20		C
C361	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C363	2897 0525	Chip	GR40CH151J50PT	10		C
C364	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C365	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C366	2897 0175	Chip	GR40Y5V473Z50PT	10		C
C367	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C368	2892 0113	Chip	GR40CH150J50PT	10		C
C369	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C370	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C371	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C372	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C374	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C375	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C376	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C377	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C378	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C379	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C380	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C381	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C382	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C390	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C392	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C393	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C394	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C395	2892 0105	Chip	GR40CH080D50PT	20		C
C400 o*	2895 1393	Chip tantalum	ECST0JY475R	20		C
C401	2897 0994	Chip	GR42-6Y5V334Z50PT	10		C
C410 o*	2895 1351	Chip tantalum	ECS-F0JE476	5		C
C420	2800 9182	Electrolytic	6.3RC2-47MS	20		C
C423 o*	2801 8820	Electrolytic	6.3RC310	20		C
C450	2892 0318	Chip	GR40CH820J50PT	10		C
C451	2892 0300	Chip	GR40CH470J50PT	10		C

Linear PCB Assembly NO. 3

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
C452	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C453	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C454	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C455	2897 0049	Chip	GR40Y5V333Z50PT	10		C
C459	2897 0224	Chip	GR40CH561J50PT	20		C
C460	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C461	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C463	2897 0049	Chip	GR40Y5V333Z50PT	10		C
C610	2805 2499	Electrolytic	6.3RC2-100MS	20		C
C611 o*	2805 9659	Electrolytic	10RC3220	20		C
C650	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C651	2897 0112	Chip	GR40W5R562K50PT	20		C
C900	2820 3080	TF	ECQ-V1H104JZ	10		C
C901 o*	2813 2520	Ceramic	DE1007SL121J3K	20		C
C902 o*	2813 2527	Ceramic	DE0907SL101J3K	20		C
C910 o*	2845 2758	OS	10SC10MCA	10		C
C950	2892 0059	Chip	GR40Y5V103Z50PT	10		C
	Connectors					
CN100 o*	3501 5502	Connector	CFP5116-0201	5		C
CN101 o*	3501 6230	Connector	53165-0817	10		C
	Diodes					
D100	2360 0721	CHIP	RD5.1MB1	20		C
D101 o*	2360 1813	Chip zener	RD13MB2	20		C
D102 o*	2360 1820	CHIP zener	RD20MB2	20		C
D110	2390 1190	Chip	ERA15-01Y	20		C
D111 o*	2390 1442	Chip	MA152K-(TX)	20		C
D112	2390 1302	Chip	MA153A-(TX)	10		C
D113 o*	2390 1442	Chip	MA152K-(TX)	20		C
D114 o*	2390 1449	Chip shottoky	MA701A-(TX)	10		C
D115 o*	2390 1449	Chip shottoky	MA701A-(TX)	10		C
D116 o*	2390 1442	Chip	MA152K-(TX)	20		C
D210 o*	2390 1442	Chip	MA152K-(TX)	20		C
D211 o*	2390 1442	Chip	MA152K-(TX)	20		C
D212	2390 1253	Chip	MA152WA-(TX)	20		C
D213	2390 1176	Chip	MA152WK-(TX)	20		C
D310	2390 1176	Chip	MA152WK-(TX)	20		C
D410	2390 1302	Chip	MA153A-(TX)	10		C
	Filters and Traps					
F200 o*	3025 0686	SAW filter	SAF38.9MZC60Z	1		C
F210 o*	3851 1148	Ceramic discriminator	CDSL5.5MC30B12	10		C
F211 o*	3851 1141	Ceramic discriminator	CDSL6.0MC30B12	10		C
F212 o*	3025 0728	SIF filter	SFSL5.5MDB12	10		C
F213 o*	3025 0721	SIF filter	SFSL6.0MDB12	10		C
F214 o*	3025 0700	SIF trap	TPW03B	5		C
F300 o*	3851 1162	Chroma trap	NLT4532-S4R4-TP	5		C
	Fuse					
FU100	3632 0245	Fuse	ATSCR0.80A	5		B
	Oscillator					
H300	2590 0434	Crystal oscillator	NR-18	1		C
	ICs					
IC200	2120 6539	Linear	M51348FP	1		B
IC300o*	2114 2401	Linear	IR3P96	1		B
IC400o*	2114 2268	Linear	AN5707NS	1		B
IC401	2116 0021	OP amp	BA10358F	10		B
IC600	2120 8876	Linear	NJM386-M	1		B
	Jacks					
JK100	3501 3766	Jack	HSJ1417-01-010	10		C
JK101	3501 3766	Jack	HSJ1417-01-010	10		C

Linear PCB No. 4

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
JK103	3501 3773	Jack	HSJ6063-01-410	1		C
JK200o*	3501 4445	Jack	HEC0779-01-630	5		C
	Inductors					
L100	3013 0161	Chip	NL453232-100K-2-TP	10		C
L101	3013 0574	Chip	TSL0707-101KR66	5		C
L200 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L201	3013 0021	Chip	NL453232-101K-2-TP	20		C
L210 o*	3013 1057	Chip	MLF2012A1R8K-TP	10		C
L211 o*	3013 1057	Chip	MLF2012A1R8K-TP	10		C
L220 o*	3013 1050	Chip	MLF2012E8R2K-TP	10		C
L221 o*	3013 1050	Chip	MLF2012E8R2K-TP	10		C
L300 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L301 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L302 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L303 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L400 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
L401	3013 0686	Chip	MLF2012DR82K-TP	10		C
L900	3013 0574	Choke coil	TSL0707-101KR66	5		C
	Transistors					
Q100	2230 7011	Chip	2SD601A-R(TX)	10		C
Q101	2230 7011	Chip	2SD601A-R(TX)	10		C
Q102	2253 0308	Chip	2SD1119-R(TX)	10		C
Q200	2221 2478	Chip	2SC2757-T1BT33, 34	10		C
DQ200o*	2259 1379	Chip digital	DTA143XK-T146	20		C
DQ211o*	2259 1379	Chip digital	DTA143XK-T146	20		C
DQ212o*	2259 1372	Chip digital	DTA123YK-T146	20		C
DQ213o*	2259 1393	Chip digital	DTC123YK-T146	20		C
DQ214	2259 1120	Chip digital	DTC144EK-T146	10		C
Q220	2252 0588	Chip	2SC2412K-T146R	20		C
Q221	2252 0588	Chip	2SC2412K-T146R	20		C
DQ300	2259 1120	Chip digital	DTC144EK-T146	10		C
DQ301	2259 1113	Chip digital	DTA144EK-T146	10		C
DQ400	2259 1169	Chip digital	DTC144WK-T146	10		C
DQ401	2259 1113	Chip digital	DTA144EK-T146	10		C
DQ402o*	2259 1386	Chip digital	DTA144WK-T146	20		C
Q403	2230 7011	Chip	2SD601A-R(TX)	10		C
Q900	2253 0308	Chip	2SD1119-R(TX)	10		C
Q901	2253 0308	Chip	2SD1119-R(TX)	10		C
	Resistors					
R100	2791 1170	Chip	ERJ-6GEYJ182V	20		C
R101 o*	2791 0770	Chip	ERJ-6GEYJ104V	10		C
R102 o*	2791 0770	Chip	ERJ-6GEYJ104V	10		C
R103	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R104	2791 2117	Chip	ERJ-6GEYJ820V	20		C
R105	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R106	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R110	2797 0014	Chip	ERJ-6GEYJ821V	20		C
R200	2792 0110	Chip jumper	ERJ-6GEYOR00V	20		C
R210	2792 0110	Chip jumper	ERJ-6GEYOR00V	20		C
R211	2791 0572	Chip	ERJ-6GEYJ101V	10		C
R212	2791 0580	Chip	ERJ-6GEYJ392V	10		C
R213	2791 0734	Chip	ERJ-6GEYJ272V	20		C
R214	2791 0831	Chip	ERJ-6GEYJ681V	20		C
R215	2797 2079	Chip	ERJ-6GEYJ120V	20		C
R216	2797 0777	Chip	ERJ-6GEYJ121V	20		C
R217	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R218	2791 0734	Chip	ERJ-6GEYJ272V	20		C

Linear PCB No. 5

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
R220	2791 0742	Chip	ERJ-6GEYJ332V	10		C
R221	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R222	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R223	2791 0580	Chip	ERJ-6GEYJ392V	10		C
R224 o*	2797 2261	Chip	ERJ-6GEYJ112V	20		C
R225	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R226	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R227	2791 0696	Chip	ERJ-6GEYJ470V	20		C
R228	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R229	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R230	2791 0599	Chip	ERJ-6GEYJ822V	20		C
R231	2791 0831	Chip	ERJ-6GEYJ681V	20		C
R232	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R233	2791 1625	Chip	ERJ-6GEYJ391V	20		C
R234	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R235	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R237	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R238	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R239	2791 0734	Chip	ERJ-6GEYJ272V	20		C
R240	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R243	2797 1589	Chip	ERJ-6GEYJ511V	20		C
R244	2791 0720	Chip	ERJ-6GEYJ222V	20		C
R247	2791 0580	Chip	ERJ-6GEYJ392V	10		C
R249	2791 1901	Chip	ERJ-6GEYJ184V	20		C
R250	2797 0245	Chip	ERJ-6GEYJ181V	20		C
R251	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R252	2791 1684	Chip	ERJ-6GEYJ183V	20		C
R253	2791 1650	Chip	ERJ-6GEYJ122V	20		C
R254	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R270	2797 0238	Chip	ERJ-6GEYJ560V	20		C
R300 o*	2797 2268	Chip	ERJ-6GEYF150V	20		C
R301	2791 2109	Chip	ERJ-6GEYJ393V	20		C
R302	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R303	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R304	2791 1684	Chip	ERJ-6GEYJ183V	20		C
R305	2791 1684	Chip	ERJ-6GEYJ183V	20		C
R306	2797 1288	Chip	ERJ-6GEYK106V	20		C
R307	7102 1619	Chip	ERJ-6GEYK105V	20		C
R308	2797 1498	Chip	ERJ-6GEYF123V	20		C
R309	2797 1491	Chip	ERJ-6GEYF103V	20		C
R310 o*	2797 2289	Chip	ERJ-6GEYF433V	20		C
R311 o*	2797 1778	Chip	ERJ-6GEYF272V	20		C
R313	2797 0672	Chip	ERJ-6GEYJ684V	20		C
R314	7102 1619	Chip	ERJ-6GEYK105V	20		C
R315	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R316 o*	2797 2331	Chip	ERJ-6GEYF681V	20		C
R318	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R319	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R320	2797 1267	Chip	ERJ-6GEYF393V	20		C
R321 o*	2797 2114	Chip	ERJ-6GEYF333V	20		C
R322	2791 0599	Chip	ERJ-6GEYJ822V	20		C
R323	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R324	2791 0607	Chip	ERJ-6GEYJ333V	20		C
R325	2791 2109	Chip	ERJ-6GEYJ393V	20		C
R326	2791 0572	Chip	ERJ-6GEYJ101V	10		C
R327	2791 0572	Chip	ERJ-6GEYJ101V	10		C
R328	2791 0572	Chip	ERJ-6GEYJ101V	10		C

Linear PCB Assembly NO. 6

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
R329	2797 1323	Chip	ERJ-6GEYF513V	20		C
R330 o*	2797 2275	Chip	ERJ-6GEYF243V	20		C
R331	2797 1267	Chip	ERJ-6GEYF393V	20		C
R332 o*	2797 2282	Chip	ERJ-6GEYF303V	20		C
R333 o*	2797 1750	Chip	ERJ-6GEYF273V	20		C
R334 o*	2797 2170	Chip	ERJ-6GEYF363V	20		C
R335 o*	2797 1750	Chip	ERJ-6GEYF273V	20		C
R336 o*	2797 2275	Chip	ERJ-6GEYF243V	20		C
R341	2791 1684	Chip	ERJ-6GEYJ183V	20		C
R342	2797 1526	Chip	ERJ-6GEYJ472V	20		C
R350	2791 1684	Chip	ERJ-6GEYJ183V	20		C
R351	2797 1491	Chip	ERJ-6GEYF103V	20		C
R360	2791 2052	Chip	ERJ-6GEYJ224V	20		C
R400	2791 0750	Chip	ERJ-6GEYJ223V	20		C
R401	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R403	2791 2109	Chip	ERJ-6GEYJ393V	20		C
R405	2791 2176	Chip	ERJ-6GEYJ471V	20		C
R406	2791 1390	Chip	ERJ-6GEYJ473V	10		C
R407	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R408	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R409	2797 1267	Chip	ERJ-6GEYF393V	20		C
R410	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R411	2797 1218	Chip	ERJ-6GEYF563V	20		C
R412	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R413	2791 0866	Chip	ERJ-6GEYJ334V	10		C
R414	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R418	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R419	2791 1625	Chip	ERJ-6GEYJ391V	20		C
R420	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R421	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R422	2797 1442	Chip	ERJ-6GEYF683V	20		C
R423	2797 1491	Chip	ERJ-6GEYF103V	20		C
R425	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R426	2791 0777	Chip	ERJ-6GEYJ104V	10		C
R427	7102 1619	Chip	ERJ-6GEYK105V	20		C
R428	2791 1579	Chip	ERJ-6GEYJ474V	10		C
R429	7102 1619	Chip	ERJ-6GEYK105V	20		C
R430	2791 0769	Chip	ERJ-6GEYJ563V	20		C
R600	2791 0360	Chip	ERJ-8GEYJ470V	10		C
R601	2791 0360	Chip	ERJ-8GEYJ470V	10		C
R602	2791 2079	Chip	ERJ-6GEYJ562V	20		C
R605	2791 9690	Chip	ERJ-6GEYJ470V	20		C
R900	2791 0892	Chip	ERJ-8GEYJ222V	10		C
R901	2791 0892	Chip	ERJ-8GEYJ222V	10		C
	Switches					
SW100	3412 0203	Slide switch	HSW1697-01-210	5		C
SW200	3412 0833	Light touch switch	EVQ-PEC-03M	20		C
SW201	3412 0833	Light touch switch	EVQ-PEC-03M	20		C
SW202	3412 0833	Light touch switch	EVQ-PEC-03M	20		C
SW203o*	3412 0896	Switch	SSSS212A	10		C
	Coils and Converter					
T100 o*	3065 0364	DC-DC converter	LC128-09	1		C
T200	3841 0700	Coil	5KAC-03A	5		C
T201	3841 0700	Coil	5KAC-03A	5		C
T300	3841 0392	Coil	5PBC-01	5		C
T900	3012 0553	Inverter transformer	TDA-21	1		C
	Thermistor					
TM100 o*	2775 1085	Chip	157-102-53031-TP	10		C
	Tuner					
TU	1013 5315	Tuner	TEPE5-01	1		C

Linear PCB Assembly NO. 7

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
	Variable Resistors					
VR100 o*	2775 0987	Chip semi-fixed resistor	EVM-1QSW30B13	20		C
VR200	2775 0770	Chip semi-fixed resistor	EVM-1QSW30B53	10		C
VR300	2775 0868	Chip semi-fixed resistor	H0614D-22KB	10		C
VR302	2775 0777	Chip semi-fixed resistor	EVM-1QSW30B24	10		C
VR303	2775 0623	Volume	RK09H11T-20KB	5		C
VR304	2775 0945	Chip semi-fixed resistor	EVM-1QSW30B54	20		C
VR305	2775 0945	Chip semi-fixed resistor	EVM-1QSW30B54	20		C
VR306	2775 0875	Chip semi-fixed resistor	EVM-7JSW30B14	10		C
VR307	2775 0777	Chip semi-fixed resistor	EVM-1QSW30B24	10		C
VR401	2775 0945	Chip semi-fixed resistor	EVM-1QSW30B54	20		C
VR402	2775 0945	Chip semi-fixed resistor	EVM-1QSW30B54	20		C
VR403	2775 0938	Chip semi-fixed resistor	EVM-1QSW30B15	10		C
VR404	2775 0945	Chip semi-fixed resistor	EVM-1QSW30B54	20		C
VR600	2765 0462	Volume	RK09H11T-50KB	5		C

SUB PCB Assembly NO. 1

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
	Capacitors					
C710	2804 9901	Electrolytic	6.3RC322	10		C
C711	2804 9420	Electrolytic	50RC31	20		C
C712	2804 9420	Electrolytic	50RC31	20		C
C715	2804 9587	Electrolytic	6.3RC347	10		C
C750	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C751	2892 0180	Chip	GR40SL221J50PT	10		C
C752	2892 0180	Chip	GR40SL221J50PT	10		C
C753	2895 0595	Chip tantalum	ECST0JY225R	10		C
C754	2892 0040	Chip	GR40Y5V104Z25PT	10		C
C760	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C761	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C762	2892 0059	Chip	GR40Y5V103Z50PT	10		C
C763	2892 0040	Chip	GR40Y5V104Z25PT	10		C
	Connector					
CN700o*	3501 6223	Connector	52231-0817	10		C
	Diodes					
D710 o*	2390 1442	Chip	MA152K-(TX)	20		C
D711 o*	2390 1442	Chip	MA152K-(TX)	20		C
D712 o*	2390 1442	Chip	MA152K-(TX)	20		C
D715 o*	2390 1442	Chip	MA152K-(TX)	20		C
	Filter					
F700 o*	3025 0721	SIF filter	SFSL6.0MDB12	10		C
	ICs					
IC700 o*	2105 2079	Linear	BU4001BF	10		B
IC701	2114 1561	Linear	NJM2903M	10		B
	Inductor					
L700 o*	3013 1092	Chip	NLC322522-470K-TP	20		C
	Transistors					
Q701 o*	2252 0847	Chip	2SC2412K-T146R	20		C
Q702 o*	2252 0847	Chip	2SC2412K-T146R	20		C
Q703 o*	2252 0847	Chip	2SC2412K-T146R	20		C
	Resistors					
R700	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R702	2797 0252	Chip	ERJ-6GEYJ823V	20		C
R703	2791 1579	Chip	ERJ-6GEYJ474V	10		C
R704	2791 0742	Chip	ERJ-6GEYJ332V	10		C
R705	2791 0305	Chip	ERJ-6GEYJ472V	20		C

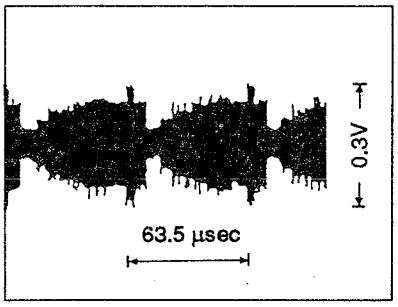
SUB PCB Assembly NO. 2

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
R706	2791 1579	Chip	ERJ-6GEYJ474V	10		C
R707	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R708	2792 0110	Chip jumper	ERJ-6GEY0R00V	20		C
R709	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R710 o*	2797 2184	Chip	ERJ-6GEYJ362V	20		C
R711	2791 1131	Chip	ERJ-6GEYJ271V	20		C
R712	2791 1650	Chip	ERJ-6GEYJ122V	20		C
R713	2791 2095	Chip	ERJ-6GEYJ682V	20		C
R714	2791 0712	Chip	ERJ-6GEYJ152V	20		C
R715	2791 0831	Chip	ERJ-6GEYJ681V	20		C
R716	2797 1365	Chip	ERJ-6GEYJ750V	20		C
R717	2791 1633	Chip	ERJ-6GEYJ123V	20		C
R718 o*	2797 2184	Chip	ERJ-6GEYJ362V	20		C
R719	2791 0704	Chip	ERJ-6GEYJ561V	20		C
R720	2791 2117	Chip	ERJ-6GEYJ820V	20		C
R721	2791 2141	Chip	ERJ-6GEYJ273V	20		C
R722	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R723	2791 0815	Chip	ERJ-6GEYJ102V	10		C
R724	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R725	2791 1633	Chip	ERJ-6GEYJ123V	20		C
R727	2791 0305	Chip	ERJ-6GEYJ472V	20		C
R730	2791 0313	Chip	ERJ-6GEYJ103V	10		C
R731	2791 0742	Chip	ERJ-6GEYJ332V	10		C
	Inductor					
VR700	2775 0966	Chip	EVM-1QSW30B14	10		C

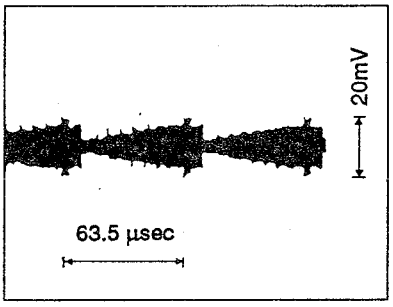
MECHANICAL PARTS LIST

Item	Code No.	Parts Name	Spec. No.	*	FOB JAPAN Unit Price	Rank
1o*	6606 9920	DP plate P-K623	K410973-2 (TV-7700P/Q)	1		C
1o*	6606 9930	DP plate R-K623	K410973-3 (TV-7700R)	1		C
2o*	6606 7824	Upper case ass'y	K210576A*1 (TV-7700P/Q)	1		X
2o*	6606 9844	Upper case ass'y	K210576A*2 (TV-7700R)	1		X
2-1	6600 4270	Adhesive tape A-K51	K451-14	10		X
2-2	6603 2680	Adhesive tape A-K67	K4677-7	20		X
2-3o*	6606 7940	T button K623	K310682-1	10		X
2-4	5860 0840	Precision (+) tap tight	BT3, 1.7x4.5Ni	50		X
2-5o*	6606 7920	Adhesive tape A-K623	K411039-1	20		X
2-6o*	6606 7930	Blind plate B-K623	K411035-1	20		X
3o*	2725 0756	Display Ass'y (TFT)	LQ323P08	1		B
4	6600 2220	Adhesive tape A-K52	K451-5	20		X
5	6600 1190	Adhesive tape D-K52	K451-4	10		X
6o*	6606 7950	Reflection plate K623	K410976-1	5		X
7	5860 0840	Precision (+) tap tight	BT3, 1.7x4.5Ni	50		X
8o*	6606 7826	BL Ass'y	K310722*1	1		B
8-1	3632 0203	Temperature fuse	SM095B1	10		B
8-2	6604 1410	Felt A-K302	K4117-7	20		X
8-3o*	6606 7970	Flat cable 623	K410983-1	5		x
8-4o*	3851 1092	Fluorescent lamp	8.88TA 1P4	1		B
9o*	6606 7890	Screw A-K623	K410188-3	20		X
10o*	6606 9838	PCB-K623P-L ass'y	K110417*1	1		B
10-1	6605 0530	Insulation sheet A-K338	K410197-1	20		X
10-2o*	6604 1410	Felt A-K302	K4117-7	20		X
10-3o*	6606 8050	Battery spring A-K623	K410974-1	20		C
10-4	6605 5320	Cushion A-K330	K410316-2	20		X
10-5o*	6606 8040	Harness sub ass'y	K410988*1	10		C
10-6o*	6606 8060	Battery spring C-K623	K410975-1	20		C
11	3831 0427	Speaker	CS036001-03	1		C
12	5860 0840	Precision (+) tap tight	PS3, 1.7x4.5BK	50		X
13o*	6606 7840	SW knob K623	K310683-1	20		X
14o*	6606 8000	ANT terminal K623	K410977-1	10		X
15	3851 0840	Rod antenna	YC-KX-334-A1	1		C
16	6605 0500	Mount plate K338	K410181-1	20		X
17o*	6606 9840	Lower case ass'y	K210574*2 (TV-7700P/Q)	1		C
17o*	6606 9841	Lower case ass'y	K210574*3 (TV-7700R)	1		C
17-1	6020 7658	Battery spring B1 G513	P408A-1	10		C
17-2	6020 7666	Battery spring B2 G513	P409A-1	10		C
18	6603 8920	C knob A-K310	K3741-1	10		X
20o*	6606 9870	Rating sheel2 P-K623	K411006-2 (TV-7700P/Q)	20		X
20o*	6606 9890	Rating sheel2 P-K623	K411006-3 (TV-7700R)	20		X
21o*	6606 4700	Blind plate B-K603	K410877-1	20		X
22	6605 0010	Screw A-K334	K410096-1	50		X
23o*	6606 7850	Screw B-K623	K411047-1	20		X
24o*	6606 7822	Battery cover	K411046*1 (TV-7700P/Q)	5		C
24o*	6606 9845	Battery cover	K411046*2 (TV-7700R)	5		C
25o*	6605 9100	Stand A-K373	K310375-1	10		X
26	5860 0483	Precision (+) tap tight	PS3, 1.7x4.5Bk	50		X
27o*	6606 9850	Rating sheel1 P-K623	K410979-2 (TV-7700P)	20		X
27o*	6606 9860	Rating sheel1 Q-K623	K410979-3 (TV-7700Q)	20		X
27o*	6606 9880	Rating sheel1 R-K623	K410979-4 (TV-7700R)	20		X
28	6605 8940	J cover A-K338V	K310357-1 (TV-7700Q/R)	20		X
29	6605 8950	Sheel A-K338V	K410594-1 (TV-7700Q/R)	20		X
Option for TV-7700OR Italian model only						
	1014 6365	AC adaptor	AD-K90GT-(D)	1		X

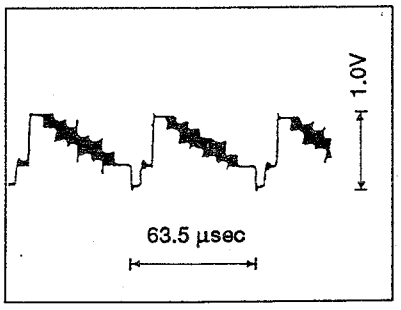
Waveforms



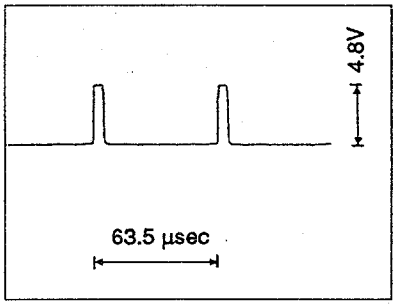
① Q200 Collector



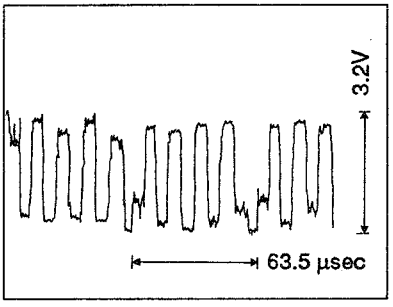
② IC200 Pin 19, 20



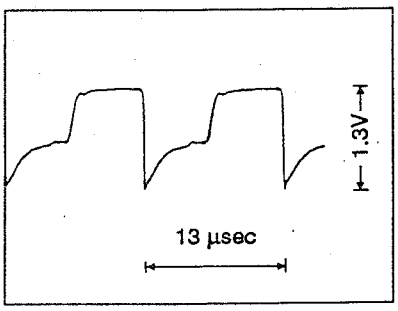
③ IC200 Pin 18



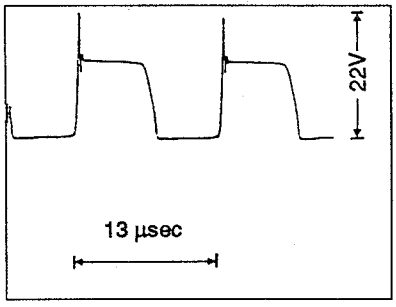
④ IC300 Pin 7



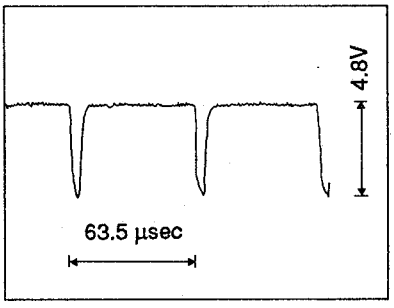
⑤ IC300 Pins 34, 37, 39



⑥ Q101 Base



⑦ Q102 Collector



⑧ IC300 Pin 26

Linear PCB and SUB PCB

SCHEMATIC DIAGRAM